

Mott Porous Metal Data Sheet

Media Grade: PDS - 3
Type: Rolled Sheet
Alloy: 316LSS
Thickness: 0.028 inches

Issued: 06/25/10

Manufacturing Specifications

Bubble Point, inch of Hg 3.0 - 3.9
 Minimum Tensile, kpsi 21.0
 Yield Strength, kpsi 19.0
 Young's Modulus, x 10⁶ psi 9.5

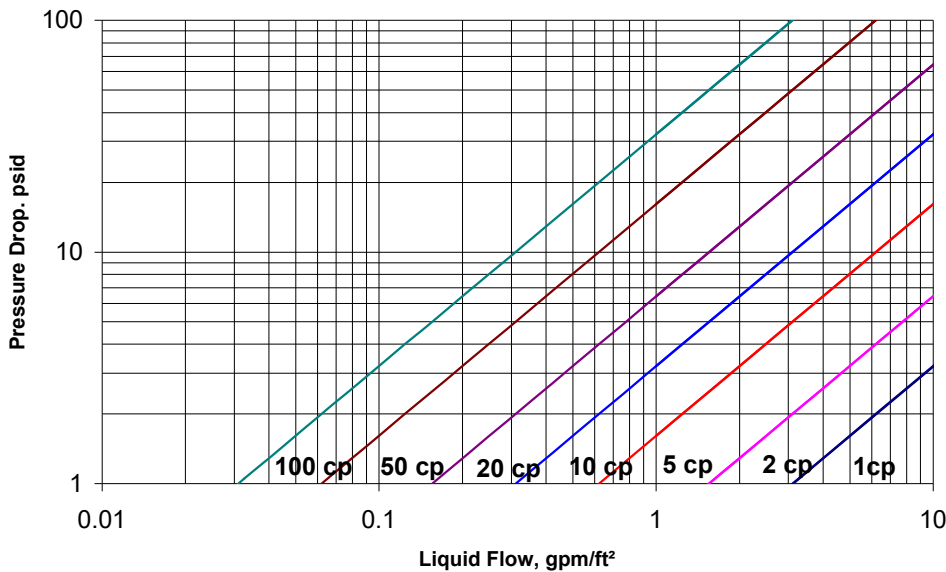
Permeability Coefficient

Liquid, K_L 11.5
 Gas, K_G 160

Liquid: Pressure Drop, psid =
 $(K_L)(Flux, \text{gpm}/\text{ft}^2)(Visc, \text{cp})(Thck, \text{inch})$
Gas: Pressure Drop, psid=
 $(K_G)(Flux, \text{acfm}/\text{ft}^2)(Visc, \text{cp})(Thck, \text{inch})$

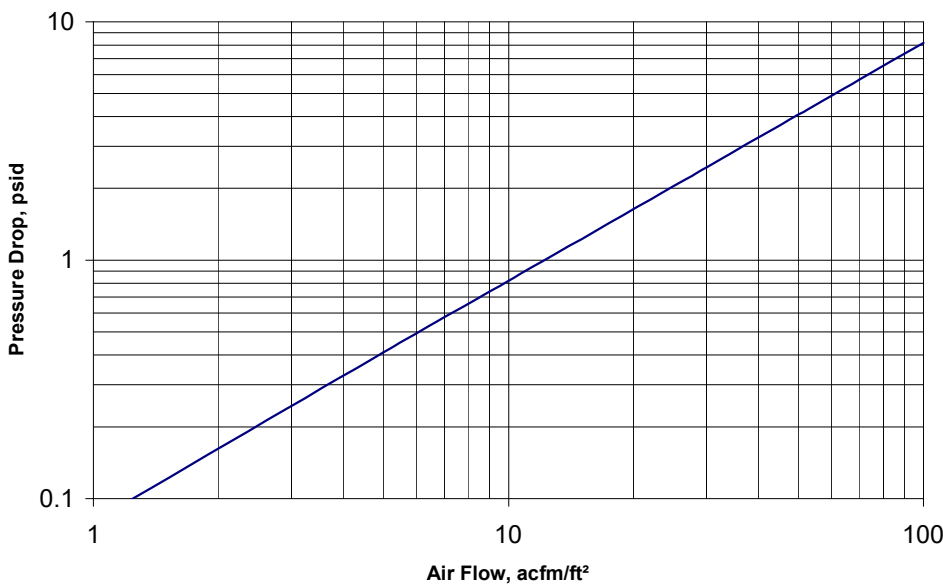
Particle Removal Efficiency

Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 1.2 μm
 99% at 1.9 μm
 99.9% at 2.8 μm
Air Efficiency Tested at flux of 6 acfm/ft²
 >90% for all particle sizes
 99% at 0.3 μm
 99.9% at 0.5 μm



Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



Notes:

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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The characteristic values on this data sheet are nominal values that represent standard products and are intended for use as a design guide only. Critical To Quality (CTQ) characteristics must be specified on the drawings and verified.